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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,285	03/26/2004	Itsuki Kajino	P/1250-274	2166

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OSTROLENK FABER GERB & SOFFEN
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NEW YORK, NY 100368403

EXAMINER

MACARTHUR, SYLVIA

ART UNIT	PAPER NUMBER
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1763

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/811,285

Applicant(s)

KAJINO ET AL.

Examiner

Sylvia R. MacArthur

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 3/26/2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/25/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5, 7 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Kajino et al (US 6,793,769).

Regarding claim 1: Kajino et al teaches a substrate processing apparatus. The apparatus comprises a holding element (holding pins 4), a rotation element (plate-like spin base 3), an atmosphere cutoff plate (atmosphere shielding part 60), a splash prevention element including recovery ducts 22a-c, a plurality of guiding members (30) and a selection element as discussed in col. 6 lines 53-col. 7 line 26.

Regarding claims 2 and 3: Kajino et al teaches the spacing of the guide members in col.6 lines 46-65. A discussion of the use of the selection element is cited in col. 6 line 53- col. 7 line 52. The proximity of the guiding member, recovery duct cut off plate, and rotating base is illustrated in Fig.1 and col. 10 lines 4-14.

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Regarding claims 4/1, 4/2, & 4/3: See Fig. 1.

Regarding claim 5/1, 5/2, & 5/3: See element 23 of Fig.1.

Regarding claims 7/1, 7/2, & 7/3: The rotating base and atmosphere cut-off plate each have a disk-like shape and the edge portions facing recovery ducts are vertical side surfaces see Fig. 1 that spin chuck 1 has a plate-like disk-like shape and the respective edge portions facing a plurality of recovery ducts are vertical side surfaces see col. 5 line 35, see also Fig.1

Regarding claims 8/1, 8/2 & 8/3: See Fig. 1.

3. Claims 1-5, 7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Adachi Hideki (JP 11-087294).

Hideki teaches a substrate processing apparatus. The apparatus comprises a holding element (substrate attachment components 4), a rotation element (spin base 3), an atmosphere cutoff plate (atmosphere shielding member 60), a splash prevention element including recovery ducts 22a-c, a plurality of guiding members (30) and a selection element as discussed in section [0044].

Regarding claims 2 and 3: Hideki teaches the spacing of the guide members in the abstract. A discussion of the use of the selection element is cited in section [0044] and in claim 3. The proximity of the guiding member, recovery duct cut off plate, and rotating base is illustrated in Figs.1 and 7, see also the abstract.

Regarding claims 4/1, 4/2, & 4/3: See Fig. 1.

Regarding claims 5/1, 5/2, & 5/3: See Fig.1.

Regarding claims 7/1, 7/2, & 7/3: The rotating base and atmosphere cut-off plate each have a disk-like shape and the edge portions facing recovery ducts are

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vertical side surfaces see Fig. 1 that spin chuck 1 has a plate-like disk-like shape and the respective edge portions facing a plurality of recovery ducts are vertical side surfaces see Fig. 1

Regarding claims 8/1, 8/2 & 8/3: See Fig. 1.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 6/1, 6/2, and 6/3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi Hideki in view of Tsuchiya et al (6,810,888).

The teachings of Hideki were discussed above.

Hideki fails to teach a suck element.

Tsuchiya et al teaches a sucking element in col. 7 lines 9-38 and col. 8 lines 33-

55. The motivation to provide the sucking element in the recovery ducts is it ensures a reduced pressure to be maintained in the fluid flow paths 36.

Thus, it would have been obvious for one of ordinary skill in the art at the time of the claimed invention to provide a suck element in the recovery ducts as taught by Tsuchiya et al in the apparatus of Hideki et al.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent

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and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1-8 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-36 of copending Application No. 10/659,213. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the present invention are broader than those of the co-pending application. For example, the present invention claims a splash prevention element with a plurality of recovery ducts, guide members, and a selection element. However, the co-pending application claims a position adjusting part wherein the guide parts are narrower in scope, specifically the multistage second processing liquid guide parts. The diameter of the guide part has been compared to the diameter of the liquid passage in the co-pending application.


This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R. MacArthur whose telephone number is 571-272-1438. The examiner can normally be reached on M-F during the core hours of 9 a.m. and 3 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571-272-1435. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Sylvia R MacArthur
Patent Examiner
Art Unit 1763

May 31, 2005